Title (en)

Operator directed routing of connections in a digital communications network

Title (de)

Von einer Bedienungsperson durchgeführte Verbindungssteuerung (Routing) in einem digitalen Kommunikationsnetz

Title (fr)

Routage de connexions dans un réseau de communication digital dirigé par un operateur

Publication

EP 0961518 A3 20020612 (EN)

Application

EP 99109317 A 19990528

Priority

CA 2239032 A 19980528

Abstract (en)

[origin: EP0961518A2] A virtual circuit whose path across a network is specified by a human operator (hereinafter operator directed route or ODR VC) is established by manually provisioning a preferred path for the connection, including a source node, destination node, and intermediate nodes or subnetworks therebetween. The source node creates a call setup message which is signalled along the preferred path, whereby the intermediate nodes along the preferred path establish the bearer channel cross-connects. The operator also specifies a re-routing scheme for the ODR VC in the event the preferred path is blocked or a link subsequently fails. The re-routing scheme includes one of (a) the preferred path only; (b) at least one manually provisioned alternate path; and (c) any available path. The ODR VC provides the benefit of a permanent virtual circuit (PVC) in terms of the ability to consciously route a connection with the benefit of a soft permanent virtual circuit (SPVC) or switched virtual circuit (SVC) in terms of the capability to efficiently re-route connections by the network as opposed to a central management authority. <IMAGE>

IPC 1-7

H04Q 11/04; H04L 12/56

IPC 8 full level

H04L 45/28 (2022.01); **H04Q 11/04** (2006.01)

CPC (source: EP US)

H04L 43/0811 (2013.01 - EP US); **H04L 45/10** (2013.01 - EP US); **H04L 45/22** (2013.01 - EP US); **H04L 45/28** (2013.01 - EP US); **H04Q 11/0478** (2013.01 - EP US); H04L 2012/562 (2013.01 - EP US); H04L 2012/5621 (2013.01 - EP US); H04L 2012/5627 (2013.01 - EP US); H04L 2012/563 (2013.01 - EP US); Y04S 40/00 (2013.01 - EP US)

Citation (search report)

- [X] EP 0798945 A2 19971001 - GEN DATACOMM IND INC [US]
- [X] WO 9716005 A1 19970501 - NEWBRIDGE NETWORKS CORP [CA], et al
- [A] SCOTT J M ET AL: "THE ATM FORUM'S PRIVATE NETWORK/NETWORK INTERFACE", BT TECHNOLOGY JOURNAL, BT LABORATORIES, GB, VOL. 16, NR. 2, PAGE(S) 37-46, ISSN: 1358-3948, XP000750517
- [A] BLACK U: "ATM, Volume II Signaling in broadband networks", ATM: SIGNALING IN BROADBAND NETWORKS, PRENTICE HALL SERIES IN ADVANCED COMMUNICATIONS TECHNOLOGIES, UPPER SADDLE RIVER, NJ: PRENTICE HALL, US, VOL. VOL. 2, PAGE(S) 159-179, ISBN: 0-13-571837-6, XP002080340
- [A] GREMMELMAIER U ET AL: "PERFORMANCE EVALUATION OF THE PNNI ROUTING PROTOCOL USING AN EMULATION TOOL", ISS '97. WORLD TELECOMMUNICATIONS CONGRESS. (INTERNATIONAL SWITCHING SYMPOSIUM). GLOBAL NETWORK EVOLUTION: CONVERGENCE OR COLLISION? TORONTO, SEPT. 21 - 26, 1997, ISS. WORLD TELECOMMUNICATIONS CONGRESS. (INTERNATIONAL SWITCHING SYMPOSIUM), TORONTO, P, XP000720545

Cited by

US8150018B2; US6822962B1; EP1489861A3; EP1791308A1; US6816454B1; US7313087B2; US7953096B2; US8203931B2; WO03017584A3; WO2004062211A1; US9252971B2; JP2005012812A; WO2005081435A1; WO0201909A1

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)

EP 0961518 A2 19991201; **EP 0961518 A3 20020612**; **EP 0961518 B1 20081105**; AT E413785 T1 20081115; CA 2239032 A1 19991128; DE 69939856 D1 20081218; ES 2320186 T3 20090519; US 6697329 B1 20040224

DOCDB simple family (application)

EP 99109317 A 19990528; AT 99109317 T 19990528; CA 2239032 A 19980528; DE 69939856 T 19990528; ES 99109317 T 19990528; US 32119599 A 19990527